BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 500000.00

Name of Work: Detailed Estimate for the work of Providing Shredder in ward No-05 of Byatarayanapura Sub Division

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2013-14	cum							
			2	5.90	0.90	1.00	10.62		
			2	3.10	0.90	1.00	5.58	✓	✓
							16.20	148.93	2413.00
	Basic Rate	140.50	✓						
	Area Weightage @ 6%	8.43	✓						
	Total	148.93	✓						
2	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix M10 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 12/ Item No. 4.2/ PWD SR 2013-14	cum							
			2	5.90	0.90	0.10	1.06		
			2	3.10	0.90	0.10	0.56		
			1	4.80	3.80	0.10	1.82	✓	
							3.44	4413.84	15201.00
	Basic Rate	4164.00	✓						
	Area Weightage @ 6%	249.84	✓						15183.60
	Total	4413.84	✓						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 5.2.3 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14	cum							
			2	4.60	0.60	0.60	3.31		
			2	3.40	0.60	0.60	2.45		
							5.76	3484.22	20069.00
	Basic Rate	3287.00							
	Area Weightage @ 6%	197.22							
	Total	3484.22							
4	KSRB 5.3-2 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14	cum							
			2	5.45	0.45	0.40	1.96		
			2	3.55	0.45	0.40	1.28		
							3.24	4148.84	13442.00
	Basic Rate	3914.00							
	Area Weightage @ 6%	234.84							
	Total	4148.84							
5	KSRB 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 122/ Item No. 15.1 / PWD SR 2013-14	cum							
			2	5.45		0.40	4.36		
			2	4.45		0.40	3.56		
							7.92	78.44	621.00
	Basic Rate	74.00							
	Area Weightage @ 6%	4.44							
	Total	78.44							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB-4-1.6 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/ P.No. 12/ Item No. 4.6/ PWD SR 2013-14	cum							
	plinth		2	5.45	0.45	0.10	0.49		
			2	3.45	0.45	0.10	0.31		
	Lintel		2	5.45	0.23	0.15	0.38		
			2	3.45	0.23	0.15	0.24		
	chajja		1	2.70	0.60	0.075	0.12		
			7	1.50	0.60	0.075	0.47		
			1	4.80	5.80	0.100	2.78		
							4.79	4690.50	22482.00
	Basic Rate	4425.00							
	Area Weightage @ 6%	265.50							22468
	Total	4690.50							
7	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, No. 6/ Item No. 2.10/ PWD SR 2013-14	cum							
			1	4.80	3.80	0.40	7.30		
							7.30	99.64	727.00
	Basic Rate	94.00							
	Area Weightage @ 6%	5.64							
	Total	99.64							
8	KSRB 6-2.4 Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2, Page No. 30/ Item No. 6.7/ PWD SR 2013-14	cum							
			2	5.23	0.23	3.00	7.22		
			2	3.80	0.23	3.00	5.24		
							12.46		
	Doors Deduction		1	2.00	0.23	2.40	1.10		
			1	1.20	0.23	2.40	0.66		
	Windows		4	0.90	0.23	1.20	0.99		
							2.76		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							9.70	5916.92	57402.41
	Basic Rate	5582.00							
	Area Weightage @ 6%	334.92							57394.0
	Total	5916.92							
9	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46/ PWD SR 2013-14	qtl							
			0.65	4.79			3.12		
	65 Kg / Cum						3.12	7244.04	22569.00
	Basic Rate	6834.00							
	Area Weightage @ 6%	410.04							22601.40
	Total	7244.04							
10	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.29/ PWD SR 2013-14	Sqm							
		2x2	4	6.23	0.20		4.98		
		2x2	4	5.00	0.20		4.00		
			1	2.70	0.60		1.62		
			7	1.50	0.60		6.30		
							16.90	284.08	4802.00
	Basic Rate	268.00							
	Area Weightage @ 6%	16.08							4631.9
	Total	284.08							
11	KSRB 15.3.1 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever reuired smooth rendering, : Providing and removing scaffolding, including cost of materials, labour. Curing complete as per specifications. Page No. 119/ Item No. 15.9/ PWD SR 2013-14 KSRB 15.3.2:-do- cement mortar 1:4 . Page No. 119/ Item No. 15.10/ PWD SR 2013-14	Sqm							
			2	5.23	3.00		31.38		
			2	4.23	3.00		25.38		
			2	4.80	3.00		28.80		
			2	3.80	3.00		22.80		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		1x2	2	2.70	0.60		3.24		
		7x2	14	1.50	0.60		12.60		
	deduction						124.20		
	Doors		2	2.40	2.40		11.52		
			2	1.20	2.40		5.76		
	Windows		8	1.20	1.20		11.52		
							28.80		
							95.40	✓	
							95.40	138.86	13247.00
	Basic Rate	131.00	✓						
	Area Weightage @ 6%	7.86	✓						
	Total	138.86	✓						
13	KSRB: 7.3 Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron 3.15mm thick M.S. Gusset plates at junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming cost of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. double leaf door of size 2.4mx2.4m Size Specification NO, KBS 7.8 / 7.12 Page No. 36/ Item No. 7.3/ PWD SR 2013-14	Sqm							
			1	2.00	2.40		4.80		
			1	2.10	2.40		5.04	✓	✓
							9.84	2745.40	27015.00
	Basic Rate	2590.00	✓						
	Area Weightage @ 6%	155.40	✓						
	Total	2745.40	✓						
15	KSRB 7.8 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28Kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size, all steel section should confirm to I.S. 7452:1990, 4nos, of holdfasts of approved size section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Page No. 37/ Item No. 7.8/ PWD SR 2013-14	sqm							
			4	0.90	1.20		4.32		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							4.32	3058.10	13211.00
	Basic Rate	2885.00							
	Area Weightage @ 6%	173.10							
	Total	3058.10							
16	KSRB 7.9 : Providing and fixing M.S. grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 Page No. 37/ Item No. 7.9/ PWD SR 2013-14	Kgs							
	2x2x2.0x0.6=4.80						100.80		
	21 kg/ sqm x 4.8 =100.80								
							100.80	95.40	9616.00
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	95.40							
17	Providing and fixing ridges, hipe with tetra pack sheet roofing with GI J or L hooks bolts and nuts 8mm dia GI plain and bitumen washers serrated of plain wings adjustable ridges including cost of materials labour complete as per specifications.	sqm							
			2	6.00	2.50		30.00		
							30.00	400.00	12000.00
	Approved rate	400.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
18	Fabricating supplying and erecting M.S. TubulerTruss of span upto 10m bottom and top member is provided with 50x50x6mm double equale angles, welded back to back and in between top and bottom line, in ereas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided all the members are weldeded togeher with 6mm gusset plate as per drawing, Nos CBS/SD/K- mantap/9/MND/97. The enter truss is anchored in RCC column buy using 4Nos of M.S anchor bolts at eacth support, with 10mm thick base plate and shoe plate. The work includes cutting, straightening , pacing in position of M.S angle and welding wherever necessary, and applying one of red oxide primer coat to all the members including cost of all materials, labour charges,and higher charges of mechineries for cutting welding, granding and erection equipments, etc, complete as per specification. Page No. 46/ I No. 7.30/ PWD SR 2013-14	Kgs							
	50x50x5mm equal angels								
	3x20.30+30.00=90.8x3.8kg/m = 335						335.00		
	Basic Rate	118.00					335.00	125.08	41902.00
	Area Weightage @ 6%	7.08							
	Total	125.08							
19	KSRB 15.10.1 : Providing white washing to new wall surface in two coats with lime of approved quality, to give an even shade including cost materials, labour, for fixing complete as per specifications. Page No. 121/ Item No. 15.38/ PWD SR 2013-14	sqm							
							335.00	6.36	2131.00
	Basic Rate	6.00							
	Area Weightage @ 6%	0.36							
	Total	6.36							
	Electrification work								
20	Supplying and wiring adopting loop system in exisiting PVC conduit/casing caping using copper PVC insulated multi standard 2x1.5sqm copper wire with the 6 amps flush type SP control switch shall be fixied on the exisiting plastic sheet / gang box, the other end	P/Mtr							
			1				**1.00**	**220.00**	**220.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
21	Supplying 6A flush / Protected type socket and a 6 amps flush / projected type SP switch either surface mounting in a exisiting gang box or in a 4mm thick plastic sheet and fixing over a fllush mounted wooden box and wiring using necessary capacity wires	Each							
			1				1.00	90.00	90.00
22	Supply and fixing of bakelite D.P/Socket/switchwith /without neon indicator over exiting wood board or flush mounting in plastic plates / niches-I using Group A Material.	Each							
	c) 16 Amps flush type Universal socket.		1				1.00	95.00	95.00
23	Supplying 4 mm thick plastic sheet with necessry nitches for fixing switches regulators etc.., and fixing on exisiting wooden pr metal box using N.F.screws	P/sqm							
			1	1800			1800.00	0.20	360.00
24	POINT WIRING USING COPPER WIRE WITH SWITCH Supplying ad wiring adopting loop system in existing PVC conduit / casing caping using copper PVC insulated multi strand 2x1.5 sq.mm copper wire with a 6 Amps flush on the exisiting II. Point wire using class B Material.								
	a) Short point upto 3mtr from tapping point to our let via switch	Each	1				1.00	140.00	140.00
	b) Medium point above 3mtrs upto 6 mtr from tapping point to cut let via switch.	Each	1				1.00	220.00	220.00
	c) Long point above 6 mtrs to 10 mtrs from tapping point to out let via switch.	Each	1				1.00	325.00	325.00
25	Wiring for lighting / power circuit using one of PVC indulated 1100 v grade, multi and copper conductor single core cable in open or concealed system of wiring I Group - A Materials								
	d) 4 sqmm	P/Mtr	1	10			10.00	30.00	300.00
	f) 10 sqmm	P/Mtr	1	5			5.00	85.00	425.00
26	Supplying heavy guage PVC conduit pipe.., Dia confirming to IS 2509 with suitable size bends, jnction boxes, adhesive paste etc.., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls.								
	a) 19/20m dia 2mm thick	P/Mtr	1	10			10.00	32.00	320.00
	b) 25mm dia 2mm thick	P/Mtr	1	5			5.00	43.00	215.00
27	Supplying and fixing sheet metal box made out of 18 SWG sheet with necessary holes for cable / conduict entry as required with one coat of primer of approved make etc. (P.02) (Sl.No-04)(ch-01)								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	b) 100x75x65mm	Each	1				1.00	72.00	72.00
	d) 180x90x65mm	Each	1				1.00	113.00	113.00
28	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting necessary masonry patch work complete(Ch-01) (P.03) (Sl.No-06)								
	a) 12x"12x"3(300x300x76mm)	Each	1				1.00	90.00	90.00
	c) 10"x7"3"(254x178x76mm)	Each	1				1.00	60.00	60.00
45	Supplying patty type flourscent tube light fitting of 4'-36/40 watts fluorecsent tube fitting,, made out of M.S Sheet and stove enameled with low loss open construction copper wound ferrmagnetstic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wires for use on 230 vo;lts A C supply inluding I No 4'- 36/40 watts fluorescent tube.- Groub-b II.2x4'36/40 Watts								
	a) Group A	Each	1				1.00	950.00	950.00
29	Wiring for lighting / power circuit using one of PVC indulated 1100 v grade, multi and copper conductor single core cable in open or concealed system of wiring I Group - A Materials c) 2.5 sqmm	P/mtr	1	5			5.00	21.00	105.00
30	Supplying and fixing HRC fuse link on exisiting switch fuse base ec) 125 amps	Each	1				1.00	420.00	420.00
31	Supplying and fixing minitrature circuit breakers on existing MCB distribuution boards using necessary fixing materils and wiring complete as required - A) 5-32 amps S.P(1) Group A	Each	1				1.00	540.00	540.00
32	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25 mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class b,50 mm	P/mtr	1	1			1.00	260.00	260.00
33	Supplying and fixing angles iron frame work fabricated out of M.S.angle iron.., and M.S.flat.., with washers etc., and painted with two coats of red oxide and then two coats of approved paint a) 40x40x6 mm	P/mtr	1	1			1.00	210.00	210.00
34	Fixing all type and all capacities fluorescent / false ceiling/spot light/CFL indoor on the walls / ceilin g / rates/girders uising 23/0.0076" twins twisted PVC insulted wires, required nos of round blcoks and clamps (if requied) a) On wall/ceiling	Each	1				1.00	85.00	85.00
35	Providing Heavy Duty Leaf Shredder Machine (Chopper Machine CMS-A)	Nos				L/s			195000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	BESCOM Deposite charge								15000.00
	1% for Quality control								5000.00
36	Miscellaneous charges								534.59
								Total	500000.00
	(Rupees Five lakhs Only)								

534.09

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ.ಬ.ಪಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾ

Executive Engineer
Byatarayanapura Division
Bangalore-92

Assistant Executive Engineer
Byatarayanapura Sub Division
Bangalore-24

Technical Sanction for Rs. Rs. 5-00 lakhs
Rupees five lakhs only

P 1771

EE No-89/13-14

Registered as EE(P)/No. 89/13-14 Subject to conditions contained in memo.
No. 89/13-14 Dt. 30/10/13

Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092

ADMINISTRATIVELY SANCTIONED FOR Rs 5-00 lakhs
Rupees five lakhs
Under P-1771
Registered as EE(P)/No. EE(P)/303/13-14
Subject to conditions enclosed memo EE( ) No. EE(P)/303/13-14 29/10/13
Dt. Estimate No.
dated 30/10/13 Rs 5-00 lakhs

30/10/13.
Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92